

EM1020 Series

1000BASE-T to Gigabit SFP Media Converter



Overview

The EM1020 Series provides media conversion between 1000BASE-T(X) and 1000BASE SFP Fiber. The EM1020's fiber design is compatible to 1000BASE SFP fiber transceiver. Also, through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be active or disabled.

With Gigabit transmission rate, the EM1020 supports Jumbo Frame up to 9K bytes. Also, this commercial grade Gigabit media converter supports EtherWAN's EMC1600 chassis system for easy group installation. the EM1020 is the ideal media converter for enterprise environments.

EtherWAN – “When Connectivity is Crucial”.

Spotlight

• Gigabit Connectivity

- 1000BASE-TX and 1000BASE-SX/LX/BX Ethernet SFP transmission conversion
- 1000Mbps Full duplex SFP

• Link-Fault-Pass-Through (LFPT)

- LFPT function let network operators be aware of network connection status
- When fiber link is down, LFPT function will turn down Ethernet port to inform connected device that the link is down and vice versa

• Optional Chassis System

- Supports wall mounting or EtherWAN's EMC1600 chassis system for easy group installation with power redundancy

Hardware Specifications

Technology

Standards

- IEEE802.3ab, 1000BASE-T
- IEEE802.3z, 1000BASE-SX/1000BASE-LX
- IEEE802.3x, Full duplex and flow control

Forward and Filtering Rate

- 1,488,100pps for 1000Mbps

Processing Type

- Auto Negotiation
- Auto MDI/MDIX

Power

Input

- Input Voltage: 12VDC

Power Consumption

- 2.4W Max. 0.2A @ 12VDC

Mechanical

Casing

- Aluminum Case

Dimensions

- 80.3mm (W) x 109.2mm (D) x 23.8mm (H)
(3.16" (W) x 4.3" (D) x 0.94" (H))

Weight

- 150g (0.33lb.)

Installation

- Wall mounting or use with EMC1600 media converter chassis system

Interface

Ethernet Port

- 1000BASE-T: 1 port
- Gigabit SFP: 1 port

LED Indicators

- Per Unit: Power Status (Power)
- Per Port: 1000T: Link, Full-duplex/Collision Gigabit SFP: Link, Transmit, Receive

Environment

Operating Temperature

- 0°C to 45°C (32°F to 113°F)

Storage Temperature

- -10°C to 70°C (-14°F to 158°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO

- Manufactured in an ISO9001 facility

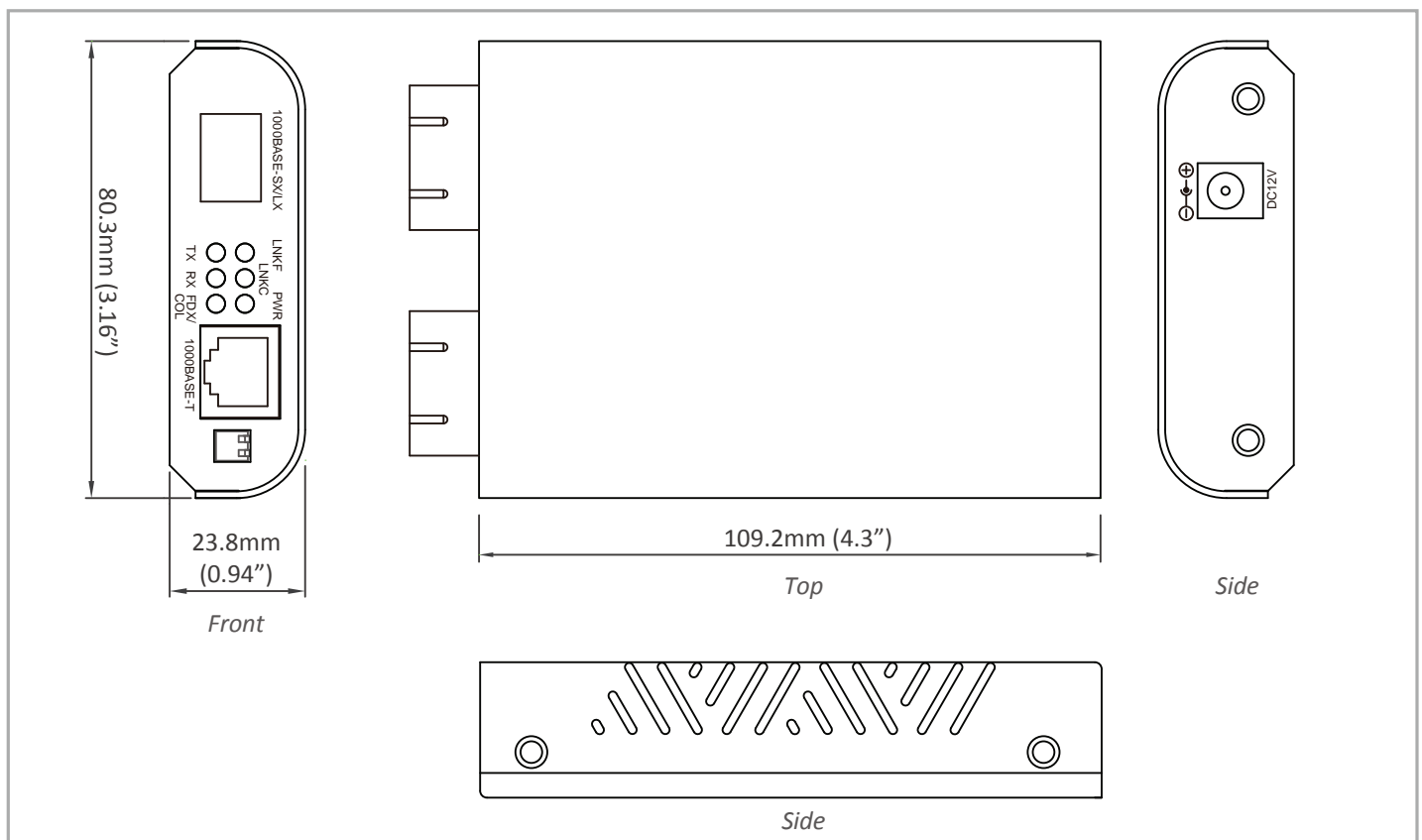
Emission Compliance

CE Mark Class A

FCC Part 15B Class A

VCCI Class A

Dimensions



Ordering Information

Model

EM1020-X	1000BASE-T to Gigabit SFP Media Converter
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Power Adaptor Options (X)

A	with external power adapter for AU
E	with external power adapter for EU
J	with external power adapter for JP
K	with external power adapter for UK
U	with external power adapter for USA
3C	with external power adapter for China

Optional Accessories

SFP Non-Hardened Type Gigabit Fiber Transceivers

Part Number	Typical Distance	Wavelength (nm)	Cable Type	Connector
EX-1250NSP-SB1L	275M/500M	850	MM	Duplex LC
EX-1250TSP-MB4L	10KM	1310	SM	Duplex LC
EX-1250TSP-NB6L	40KM	1310	SM	Duplex LC
EX-1250TBP-MB1L	550M	TX:1310 / RX:1550	MM WDM-A	LC
EX-1250TBP-LB1L	550M	TX:1550 / RX:1310	MM WDM-B	LC
EX-1250TBP-MB4L	10KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB4L	10KM	TX:1550 / RX:1310	SM WDM-B	LC
EX-1250TBP-MB5L	20KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB5L	20KM	TX:1550 / RX:1310	SM WDM-B	LC
EX-1250TBP-NB6L-D	40KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB6L-D	40KM	TX:1550 / RX:1310	SM WDM-B	LC

* More SFP options also available upon request.

* EMC1600 (available separately), a proprietary 19" chassis system, can house up to 16 x EM1020 Series media converters.